

# Automated Nucleic Acid Extraction Market Size and Share, Industry Trends and Forecast 2026-2033



The [Automated Nucleic Acid Extraction Market](#) analysis report provides a comprehensive overview of industry trends, technological advancements, and product innovations shaping the market landscape. Rising demand for rapid, high-throughput molecular testing, along with expanding applications in genomics research and clinical diagnostics, is driving strong growth over the forecast period. The increasing prevalence of infectious diseases and growing focus on precision medicine are further boosting adoption. Additionally, advancements in automation are enhancing efficiency, accuracy, and reproducibility in laboratory workflows, while rising investments in biotechnology and diagnostic infrastructure continue to support market expansion.

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The **Automated Nucleic Acid Extraction Market** is valued at USD 4.31 billion in 2025 and is projected to reach USD 9.24 billion by 2033, expanding at a CAGR of 10.03% during the forecast period from 2026 to 2033.

The **U.S. Automated Nucleic Acid Extraction Market** is projected to grow from USD 1.35 billion in 2025 to USD 2.56 billion by 2033, at a CAGR of 8.38% during the forecast period. Growth is driven by increasing adoption in molecular diagnostics, genomics research, and clinical laboratories, along with rising demand for high-throughput and automated testing solutions. The need for rapid and accurate diagnostic results, particularly for infectious disease detection, is further supporting market expansion. Additionally, advancements in laboratory automation technologies, integration with PCR and sequencing platforms, and growing investments in biotechnology research and diagnostic infrastructure are expected to accelerate market growth in the coming years.

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# Majoy Key Players



- Thermo Fisher Scientific
- QIAGEN
- Roche Diagnostics
- Merck KGaA
- Agilent Technologies
- Promega Corporation
- Bio-Rad Laboratories
- Takara Bio
- Zymo Research Corporation
- PerkinElmer
- Hamilton Company
- Analytik Jena AG
- Beckman Coulter
- Bioneer Corporation
- LGC Biosearch Technologies
- Illumina
- Revvity, Inc.
- bioMérieux
- AutoGen, Inc.
- Tecan Group

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- **By Product Type:** Instruments dominated the market with a 42.78% share in 2025, while software and data analysis tools are projected to grow at the fastest CAGR of 12.47% during 2026–2033.
- **By Extraction Technology:** Magnetic bead-based extraction held the largest share at 48.15% in 2025, whereas PCR-based extraction is expected to expand at the highest CAGR of 13.05% over the forecast period.
- **By Sample Type:** Blood led with a 37.64% share in 2025, while swabs (buccal/nasal) are anticipated to register the fastest CAGR of 12.89% from 2026 to 2033.
- **By Application:** Clinical diagnostics accounted for the largest share of 40.52% in 2025, while personalized medicine is projected to grow at the fastest CAGR of 13.21%.
- **By End User:** Hospitals and diagnostic laboratories held the largest share at 45.36% in 2025, with biotechnology and pharmaceutical companies expected to record the fastest CAGR of 12.88% during the forecast period.

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**North America** dominated the Automated Nucleic Acid Extraction Market, accounting for a 41.87% market share in 2025. Leadership in the region is propelled by well-established infrastructure for healthcare, high penetration of molecular diagnostics tools and reagents in clinical and research laboratories. The strong R&D and favorable regulatory scenario coupled with high adoption of precision medicine for various specificity providing the edge to North America in automated nucleic acid extraction system market as being the leading region.



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**For any questions or further information regarding this report, please contact:**

**ROHAN JADHAV**

**S&S Insider Pvt Ltd.**

**Phone:** +1- 315 636 4242, UK - +44 - 20 32905010, +91 - 7798 602273

**Email:** [info@snsinsider.com](mailto:info@snsinsider.com)